

10th Class 2017

Math (Science)	Group-II	PAPER-II
Time: 20 Minutes	(Objective Type)	Max. Marks: 15

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

1-1- The solution set of equation $4x^2 - 16 = 0$ is:

- (a) $\{\pm 4\}$
- (b) $\{4\}$
- (c) $\{\pm 2\} \checkmark$
- (d) ± 2

2- Cube roots of -1 are:

- (a) $-1, -\omega, -\omega^2 \checkmark$
- (b) $-1, \omega, -\omega^2$
- (c) $-1, -\omega, \omega^2$
- (d) $1, -\omega, -\omega^2$

3- If α, β are the roots of $x^2 - x - 1 = 0$, then product of the roots 2α and 2β is:

- (a) -2
- (b) 2
- (c) 4
- (d) $-4 \checkmark$

4- Find x in proportion $4 : x :: 5 : 15$:

- (a) $\frac{75}{4}$
- (b) $\frac{4}{3}$
- (c) $\frac{3}{4}$
- (d) $12 \checkmark$

5- The third proportional of x^2 and y^2 is:

- (a) $\frac{y^2}{x^2}$
- (b) x^2y^2
- (c) $\frac{y^4}{x^2} \checkmark$
- (d) $\frac{y^2}{x^4}$

6- The set having only one element is called:

- (a) Null set
- (b) Power set
- (c) Singleton set \checkmark
- (d) Subset

